

What is claimed is:

- 1) An aptamer-toxin conjugate therapeutic agent comprising a targeting moiety conjugated to a cytotoxic moiety.
- 2) The therapeutic agent of claim 1 wherein said targeting moiety is an aptamer.
- 3) The therapeutic agent of claim 1 wherein said targeting moiety is a nucleic acid sensor molecule.
- 4) The therapeutic agent of claim 2 wherein said cytotoxic moiety is selected from the group consisting of a cytotoxic peptide, a cytotoxic protein, a small molecule chemotherapeutic agent, and a radioisotope therapeutic molecule.
- 5) The therapeutic agent of claim 3 wherein said cytotoxic moiety is selected from the group consisting of a cytotoxic peptide, a cytotoxic protein, a small molecule chemotherapeutic agent, and a radioisotope therapeutic molecule.
- 6) The therapeutic agent of claim 4, wherein said targeting moiety is conjugated to said cytotoxic moiety by a covalent bond.
- 7) The therapeutic agent of claim 5, wherein said targeting moiety is conjugated to said cytotoxic moiety by a covalent bond.

- 8) The therapeutic agent of claim 4 wherein said targeting moiety is conjugated to said cytotoxic moiety by a non-covalent bond.
- 9) The therapeutic agent of claim 5 wherein said targeting moiety is conjugated to said cytotoxic moiety by a non-covalent bond.